

Kevin Mayer

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To: ggortsem@usgs.gov, bhart@usgs.gov  
cc: Richard Bauer/R9/USEPA/US@EPA  
Subject: Perchlorate results

Bob and Gary - and USGS colleagues

I received some perchlorate and TDS results from our laboratory today and I wanted to share the results. Thank you for your continued help. I will try to improve the data presentation the next time.

I seem to be missing some flow data for a few of the samples. I do a quick calculation of mass flux to give me a sense of comparison over time and sampling stations. I was also wondering if our TDS measurements are consistent with QW results that the Survey might have for these samples. I thought it would be a simple check, particularly since we sometimes have a long holding time before running the analyses.

EPA's perchlorate quantitation limit is 5 ppb for these samples. For levels of perchlorate detected at concentrations below 5 ppb, results are qualified as estimated concentrations.

Thanks again

Kevin

Colorado River blw Hoover Dam, 09421500, 08/10 @ 1000, Q=28,200cfs,  
single vertical.

EPA DATA - Perchlorate 8 micrograms/liter TDS - 560 mg/l Mass/day - 550 kg/day; 1,200 lbs/day

Las Vegas W. nr Henderson, 09419700, 08/21 @ 1045, Q=166cfs.

EPA DATA - Perchlorate 210 micrograms/liter TDS - 1700 mg/l Mass/day - 85 kg/day; 190  
lbs/day

Las Vegas W. nr Henderson, 09419700, 08/30 @ 0815, Q=600cfs(estimated),  
flood recession, grab.

EPA DATA - Perchlorate 23 micrograms/liter TDS - 1000 mg/l Mass/day - 34 kg/day; 74 lbs/day

Las Vegas W. nr Boulder City, 09419800, 08/23 @ 0740, Q=148cfs(rating).

EPA DATA - Perchlorate 490 micrograms/liter TDS - 1700 mg/l Mass/day - 177 kg/day; 390  
lbs/day

Las Vegas W. nr Boulder City, 09419800, 08/30 @ 0730, Q=1000cfs(rating),  
flood recession, grab.

EPA DATA - Perchlorate 58 micrograms/liter TDS - 1500 mg/l Mass/day - 142 kg/day; 310  
lbs/day